

Tools For Aggregating & Presenting Cancer Outcomes Data

A Collaborative Effort: NCI, SAIC & Microsoft



Our Consumer Cloud Services



500M Active Windows Live IDs!



369M People Using Hotmail!



Over 3B WW Queries Each Month!



Over 600M Unique Users



Over 6M Songs In The Catalog



20M People On Xbox Live!



Microsoft Advertising adCenter

14B Ads Per Month



A Microsoft Subsidiary

2B Unique Calls Per Year



CLOUD SERVICES



PC

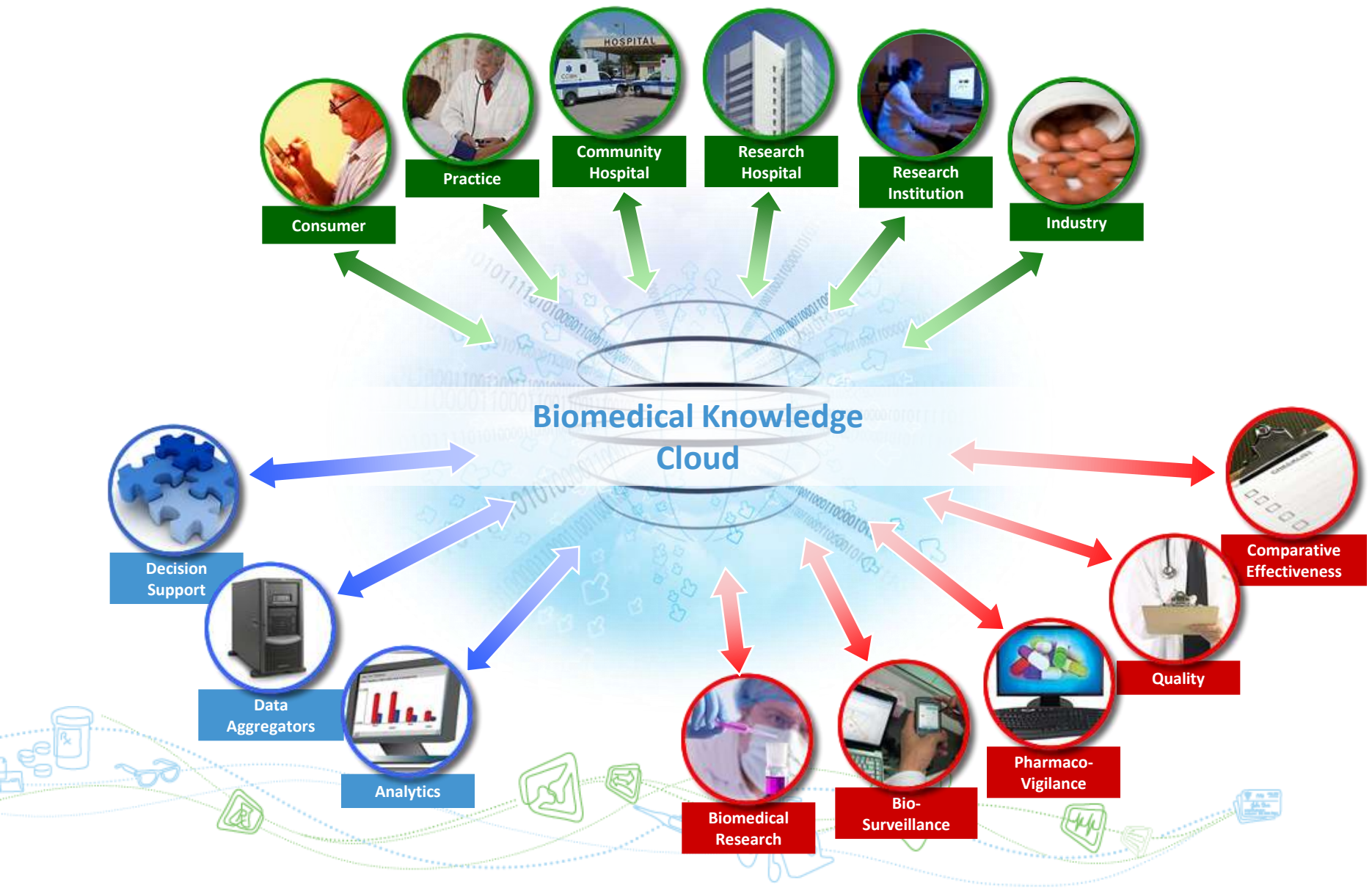


MOBILE

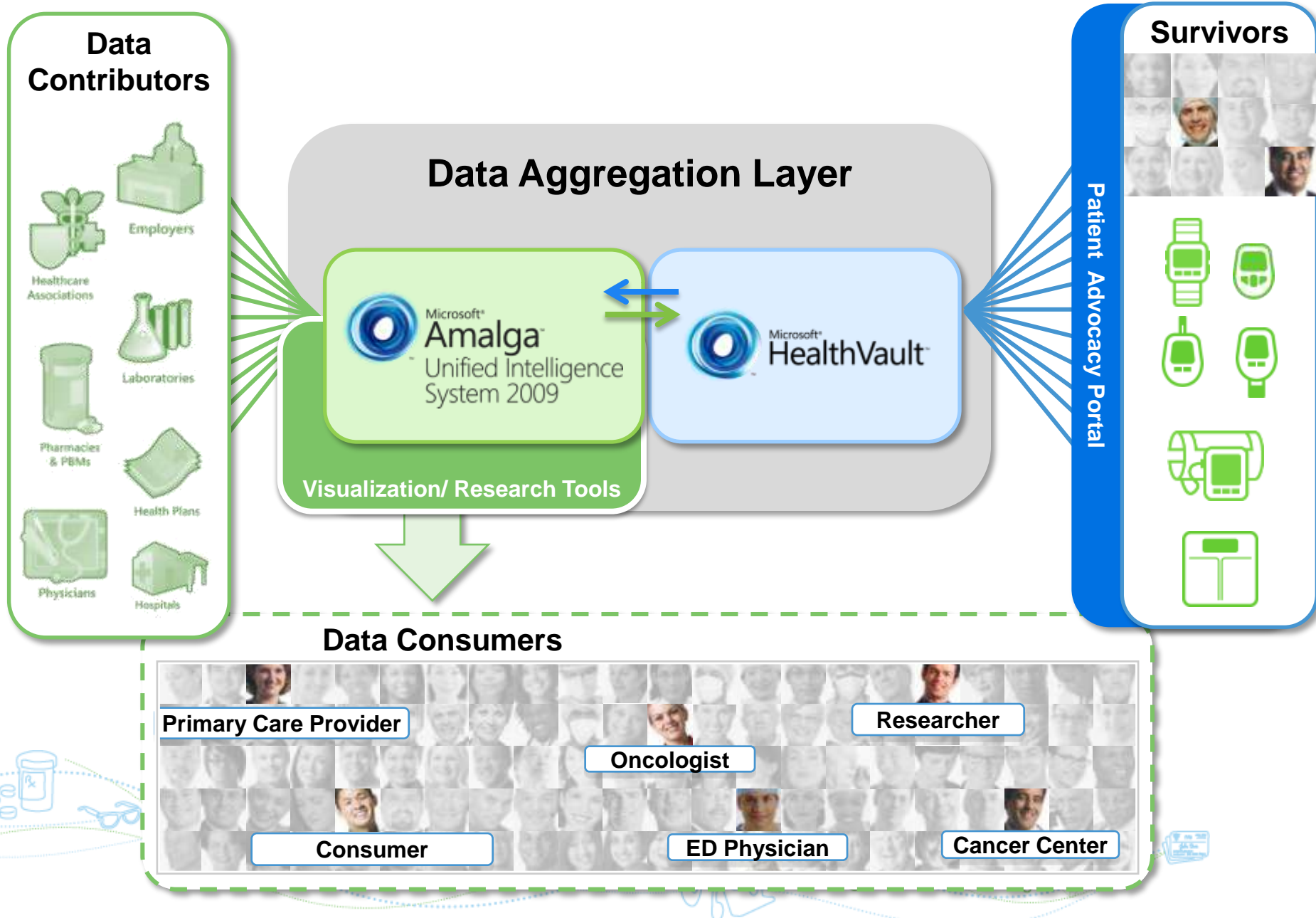


TV/HOME

A 21st Century Biomedical Ecosystem

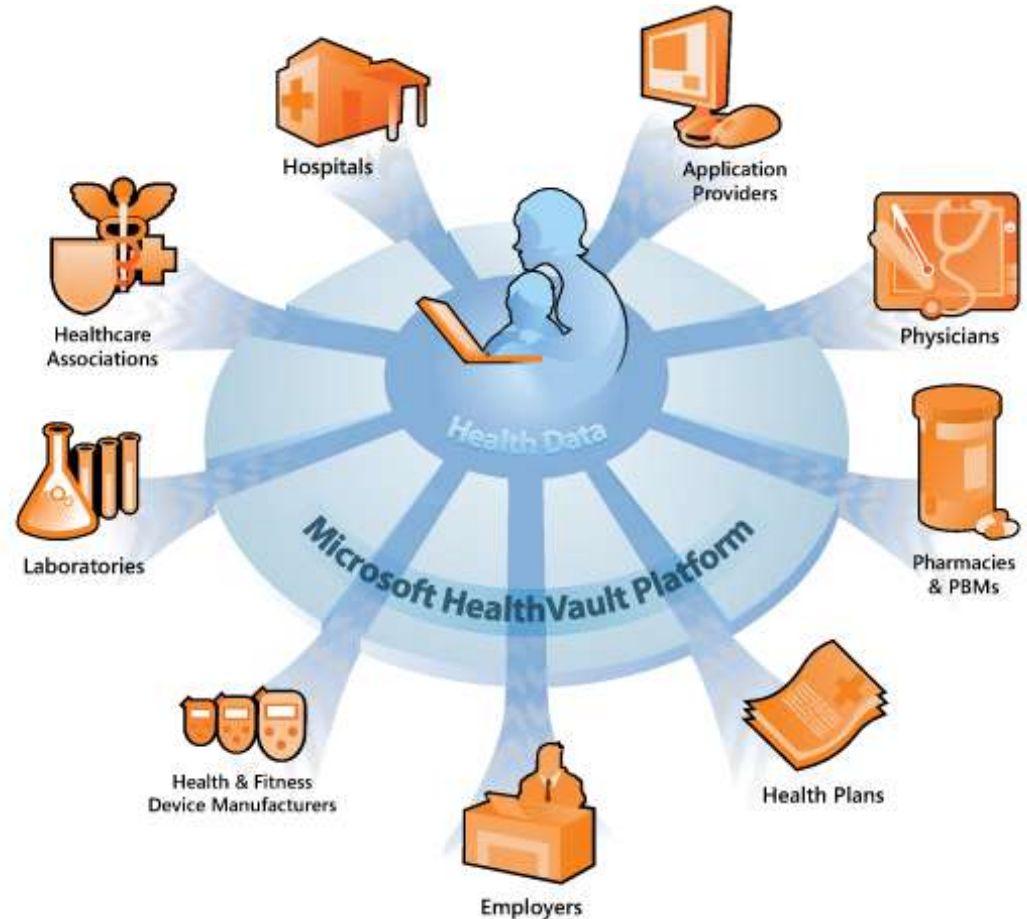


Cancer Knowledge Cloud



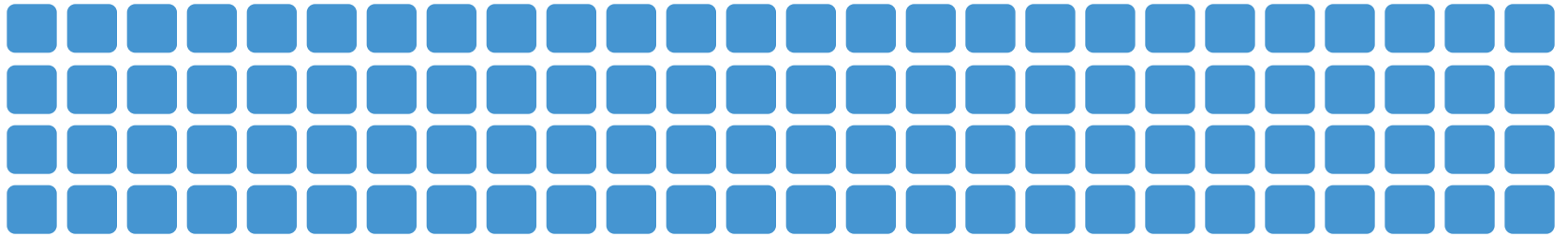
What is HealthVault?

A software and services health platform that enables consumers to store and share data among different health solutions and upload data from devices.

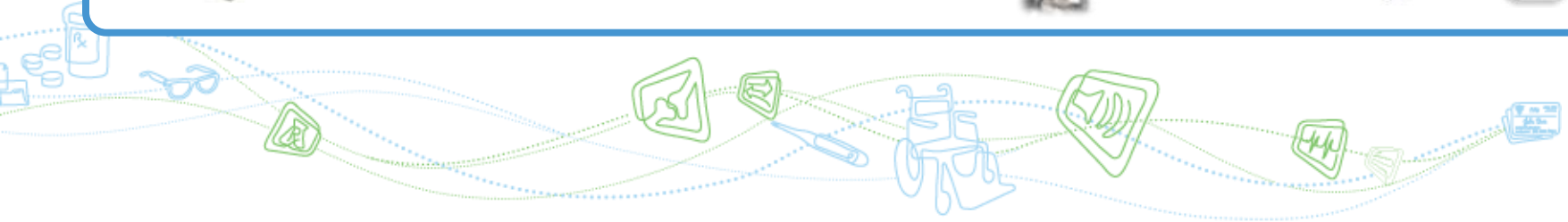


HealthVault Platform Architecture

Partner Applications



Devices

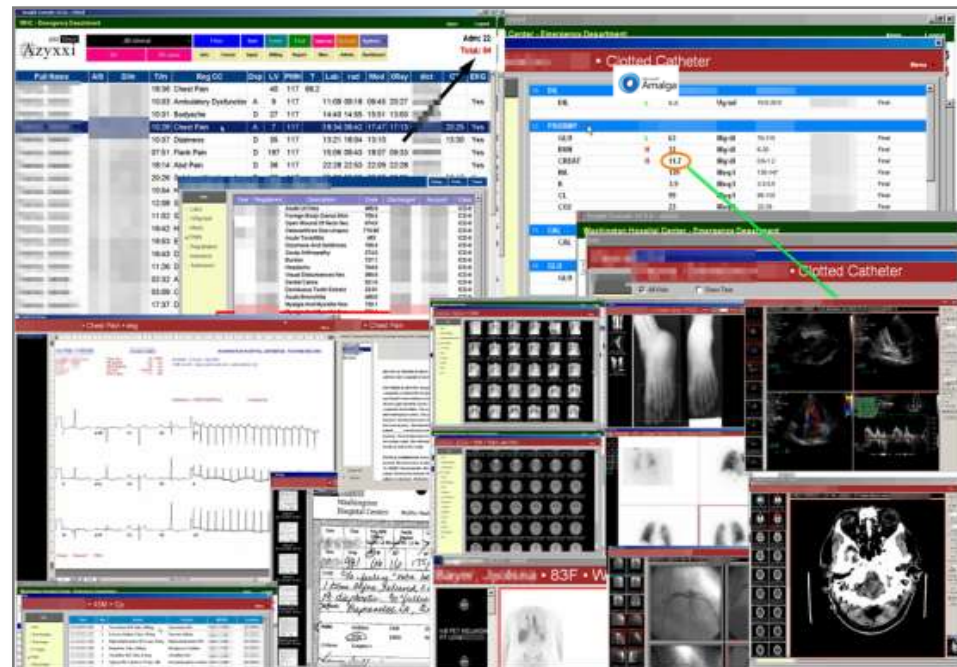


Application & Device Providers



Amalga: All Your Data; In One Place; In Real Time.

- Universal data store.
- Not healthcare specific – will receive virtually:
 - ... any data
(clinical, financial, HR, genomic, DICOM, weather...)
 - ... in any format
(HL7, CCR, CCD, Delimited, XML, custom...)
 - ... by any method
(TCP/IP, FTP, File Share, Replication...)
- Don't plan which data to use -- put it all in.

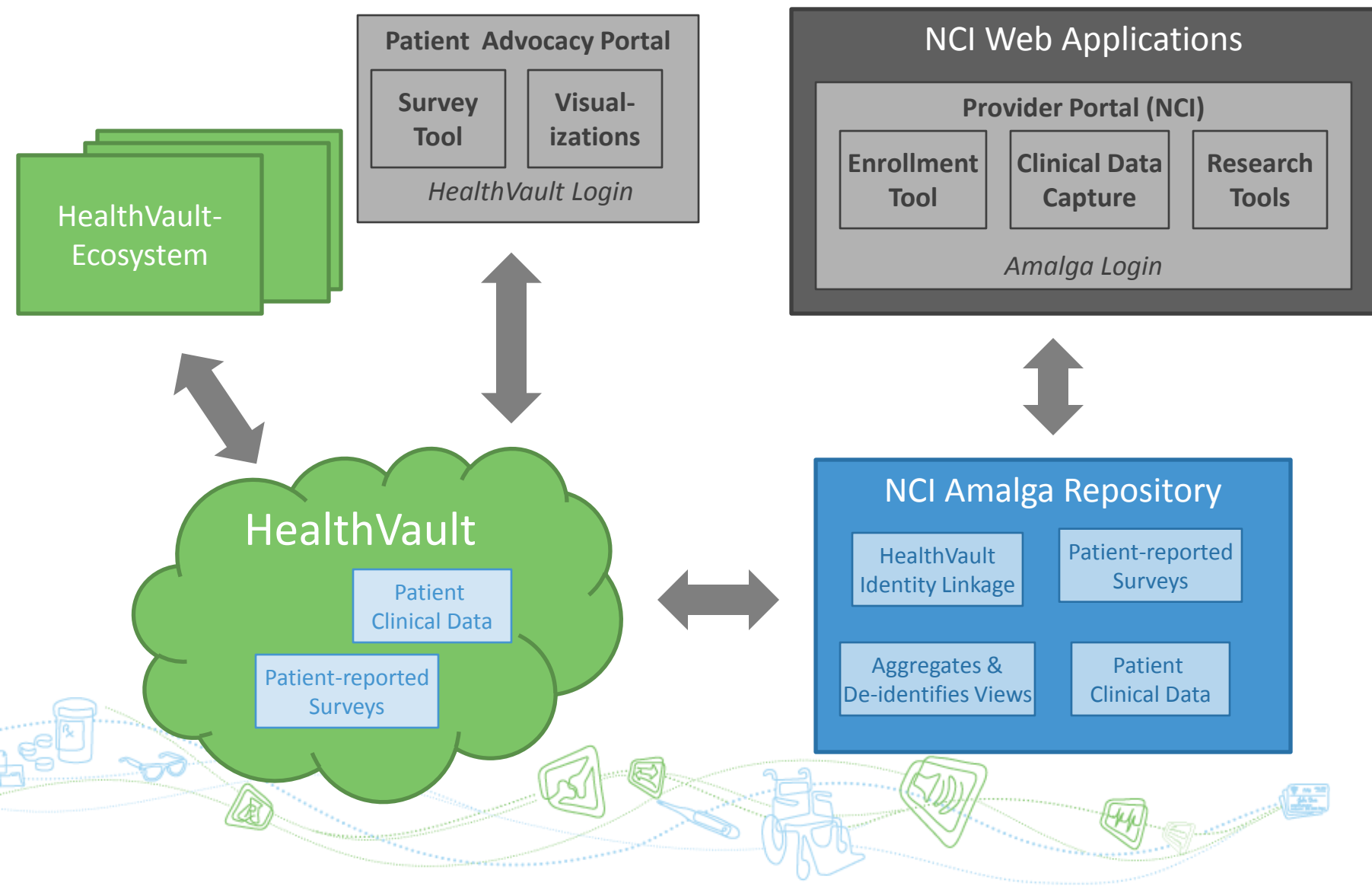


Amalga creates an unprecedented ability to view multiple types of data in a single view



• Self Service.

Cancer e-Life Collaboration



CancerONE Provider Portal



National Cancer Institute

U.S. National Institutes of Health | www.cancer.gov

CancerONE Connect

Login

josephconnor

go

Welcome to CancerONE Connect

This portal gives you resources to better manage your patients' information and clinical care.

Join today to receive alerts and news tailored to your areas of interest!



[View Demo +](#) (5 min)

Get Started

Create an account by verifying your credentials through a simple sign up. [Open Account +](#)



Protecting the privacy and security of your patient records. [Learn More +](#)

Resources available allow you to:



Create or Update Patient Records:

Create or update a patient record using the NCI's web-based Patient Outcomes Data Service (PODS)

[Click here to see how +](#)



Share Patient Records:

Send information or test results to your patient or another provider

[Click here to see how +](#)



Find Clinical Trials:

Match your patient with a clinical study

[Click here to find out how +](#)



Match Profiles:

Compare your patient with other patients of similar profile

[Click here to learn how +](#)



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Microsoft

SAIC



Provider Capture of Information



National Cancer Institute

U.S. National Institutes of Health | www.cancer.gov

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ALERT: GnRH Agonists: Safety Review of Drug Class Used to Treat Prostate Cancer (5/03/2010) [+](#)

ALERT: Velcade (bortezomib): Starting Dose Adjustments for Patients with Hepatic Impairment (1/26/2010) [+](#)

ALERT: Tarceva (erlotinib) May 2009 (5/8/2009) [+](#)

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Current News:

Panel looks at Environmental Cancer Risks [Read More +](#)

MRI scans accurately spot spread of cancer: study [Read More +](#)

Substance Found to Kill Cancer Stem Cells [Read More +](#)

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Publications:

NCI's Cancer Information Service (CIS): Get the latest and most accurate cancer information for patients, their families, the public, and health professionals online or speak to an information specialist (1-800-4-CANCER) [Read More +](#)

NCI Publications Online: Order comprehensive research-based information for patients and their families, health professionals, cancer researchers, advocates, and the public. [Read More +](#)

PubMed: Access 20 million citations for biomedical literature from MEDLINE, life science journals, and online books maintained by the U.S. National Library of Medicine. [Read More +](#)

NCI Cancer Bulletin: Read the NCI's biweekly online newsletter designed to provide useful, timely information about cancer research to the cancer community. [Read More +](#)



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Microsoft

SAIC



“ultra-light” oncology EHR: an on-ramp to electronic health for community practices

Diagnosis

https://trials-demo.nci.nih.gov/outcomes/outcomes/executeDiagnosis.action

National Cancer Institute

U.S. National Institutes of Health | www.cancer.gov

NCI Outcomes Portal

Welcome, mulairee@mail.nih.gov | Log Out

NCI OUTCOMES

- Home
- My Account
- Patient Search
- Baseline Data
 - Diagnosis
 - Staging
 - Pathology
 - Prior Therapies
 - Performance Status
- Treatment
 - Treatment Regimen
- Patient Outcomes
 - Disease Evaluation
 - Lesion Assessment
 - Death Information
- Log Out

QUICK LINKS

- National Cancer Institute (NCI)
- NCI Center for Bioinformatics (NCICB)
- caBIG™ - Cancer Biomedical Informatics Grid™

Physician: User, CBIIT
Patient ID: TestPt00002

Submitting Organization: Organization by Hari
Submitting Person: Mulaire, Edmond

Diagnosis [Help](#)

Diagnosis: [Look Up](#)

Diagnosis Date: (mm/dd/yyyy)

[Save](#) [Cancel](#)

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NATIONAL CANCER INSTITUTE

USA.gov

Information-driven Care



National Cancer Institute

U.S. National Institutes of Health | www.cancer.gov

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PubMed: Access 20 million citation of biomedical literature from MEDLINE, life science journals, and online books maintain U.S. National Library of Medicine. [Read More +](#)

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Microsoft

SAIC
From Science to Solutions



Patient Population as Diagnosed

Age

| | | | | | | |
|---------|-----------|---------|---------|---------|---------|---------|
| 0 - 4 | 100 - 104 | 15 - 19 | 20 - 24 | 25 - 29 | 30 - 34 | 35 - 39 |
| 40 - 44 | 45 - 49 | 50 - 54 | 55 - 59 | 60 - 64 | 65 - 69 | 70 - 74 |
| 75 - 79 | 80 - 84 | 85 - 89 | 90 - 94 | 95 - 99 | | |

Diagnosis

| | | |
|---------------------------|-----------------------|----------------------------|
| breast cancer | colon cancer | colorectal cancer |
| hematopoietic/lymphoid... | kidney/urinary cancer | lip and oral cavity cancer |
| lung cancer | oropharyngeal cancer | ovarian epithelial cancer |
| pancreatic cancer | prostate cancer | skin cancer |

Race

- Asian
- Black_or_African...
- White

Gender

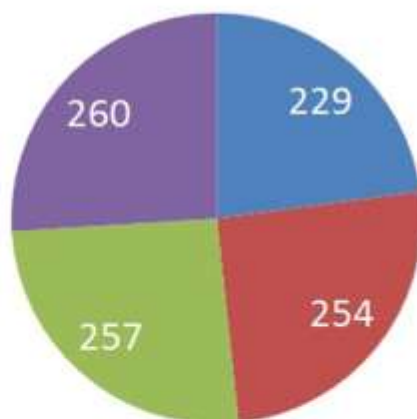
- Female
- Male

Payment Method

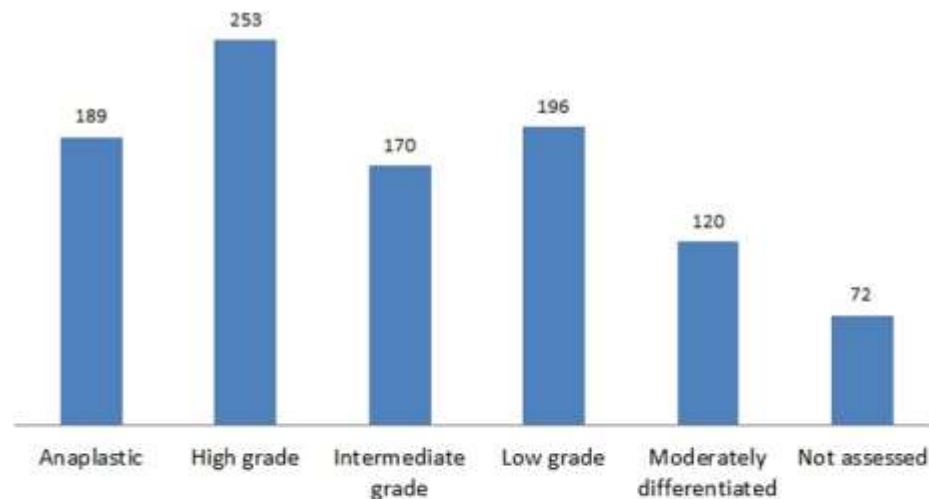
- Managed Car...
- Medicaid
- Medicaid and...
- Medicare
- Medicare and...
- Military or Ve...
- Military Spon...

Disease Stage

1 2 3 4



Pathology



Gender

Female

Male

Race

Asian

Black or African American

White

Age

20 - 24

25 - 29

30 - 34

35 - 39

40 - 44

45 - 49

50 - 54

55 - 59

60 - 64

65 - 69

70 - 74

75 - 79

80 - 84

85 - 89

90 - 94

95 - 99

0 - 4

100 - 104

15 - 19

AJCC Stage

1

2

4

3

Drug

Carboplatin

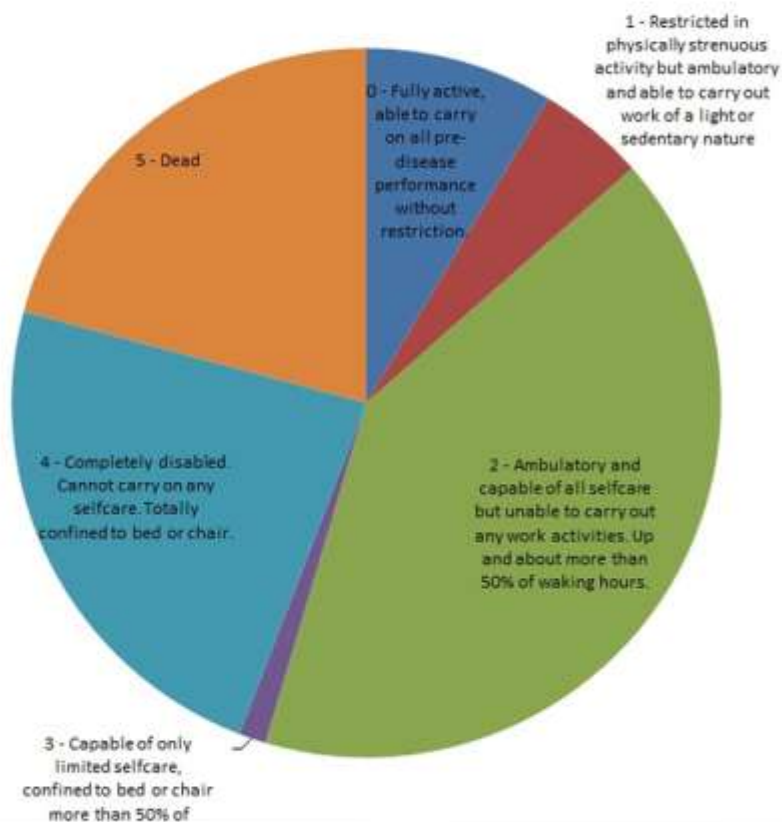
Cisplatin

Etoposide

Paclitaxel

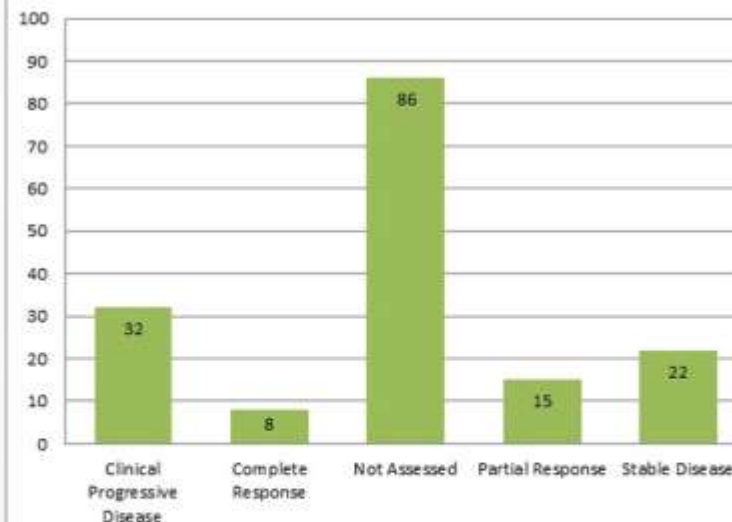
Vinorelbine

ECOG Performance Assessment

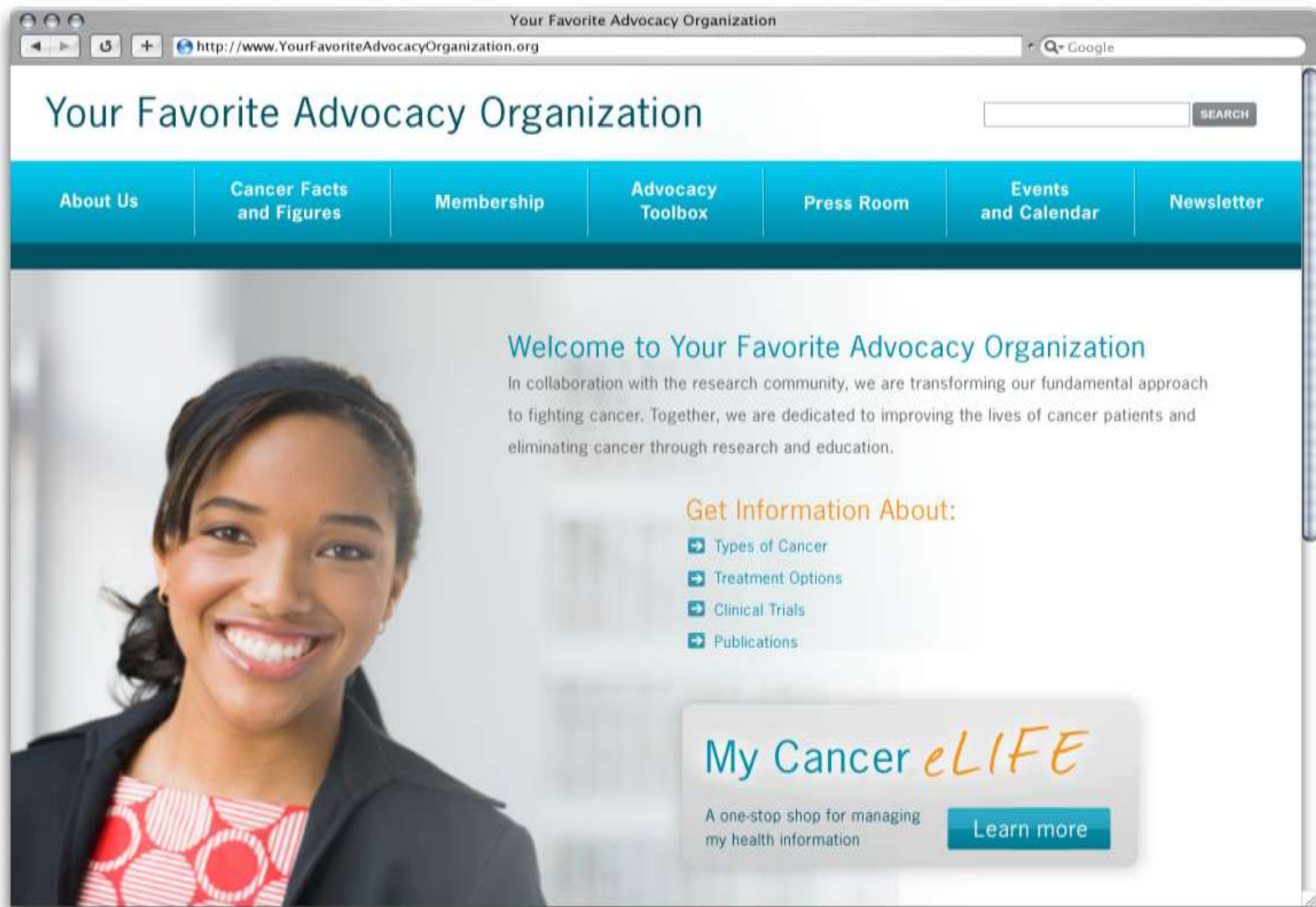


Response to Chemotherapy Drugs Lung Cancer Patients

Treatment Response



My Cancer e-LIFE: supporting a new model of Advocacy



Contribute your knowledge to help conquer cancer



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Join today and *Contribute* to help conquer cancer

- ◆ Share your information (if you wish) with cancer researchers and other cancer survivors
- ◆ Access information, tools, and communities to help you live with cancer
- ◆ Track day-to-day experiences such as side effects, etc
- ◆ Share information with your doctor(s)



TOOLS & COMMUNITY



Access information, tools, and communities to help you live with cancer

TRACK



Track day-to-day experiences such as side effects, etc. wellness, learning and more

SHARE



Share information with cancer researchers and other cancer survivors and with your doctors.

SIGN IN ◆

Get Started



All health records you create through the community are stored in Microsoft HealthVault, a security-enhanced service that lets you gather your health records online.



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Access my Record

[Home](#) > [Share](#) > Ask your doctor to help

E-mail

Print

E-mail address:

Dear Doctor,

I would like an electronic copy of my health information.

[SEND](#) ➔

3 SIMPLE STEPS TO CONTRIBUTE

1

Use the form on the left to ask your doctor to share your information

2

Your doctor will then accept the invitation and share information

3

Consent to share information you provide



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Cancer Care Summary

Date: 04/23/2010

Author: National Cancer Institute

Diagnosis

Diagnosis Date: Apr 23, 2010

Diagnosis Name: clear cell sarcoma of the kidney

Diagnosis Result Code: CDR0000043303

Pathology

Pathology Description: Pathology Description text ...

Pathology Grade: G2

Pathology Grade System: Gleason

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Configure your health journal

[Home](#) > [Health Journal](#) > Select items to track

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Select what types of things you want to record in your journal

TRACK

- ☐ Diet/exercise
- ☐ Pain, symptoms, and side effects
- ☐ Sleep
- ☐ Mood
- ☐ Medications and home treatments
- ☐ Weight

REMIND

- ☐ Remind me
- ☐ Remind me
- ☐ Remind me
- ☐ Remind me
- ☐ Remind me
- ☐ Remind me

Want to set how and when you are reminded?

[SET REMINDERS](#) ▾

[CONTINUE](#) ▸

STAY ON TRACK

By tracking what types of things you want to record in your journal and whether or not you want reminders helps you stay ahead of the game.



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My home

HEALTH JOURNAL ENTRY

✓ JOURNAL UPDATED

Mood

Date 01/07/2009

Mood DEPRESSED

Notes Couldn't even get dressed or leave the house

Pain

Date 01/07/2009

Severity SEVERE

Notes Sharp stabbing pains in the back of my neck

Sleep

Date 01/07/2009

Sleep quantity 3 HOURS

Sleep quality POOR

Notes

ALERTS & REMINDERS



[Fill out the NCI intake questionnaire](#)



[3 new trials that may be of interest to you](#)



[Update your Health Journal](#)

NEW DATA

Since your last visit

| DATE | ITEM | SOURCE |
|----------|--------------------|--------|
| 02/15/10 | BP Reading | Omron |
| 02/18/10 | Medication Fill | CVS |
| 02/18/10 | Medication re-fill | CVS |

MEDICAL SUMMARY

Blood Pressure 140/80

Cholesterol TOTAL 170 LDL 118 HDL 51

Weight 143 BMI 27

Conditions

Bone Cancer

Hypertension

Medications

Altace

Tamoxifen



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My health journal

Home > Health Journal > Weekly View

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Week of January 3 - January 9, 2010

View journal

Weekly

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|---------------------------|---------------------------|---------------------------|------------------------------------|--|---|---------------------------|
| January 3 2010 | January 4 2010 | January 5 2010 | January 6 2010 | January 7 2010 | January 8 2010 | January 9 2010 |
| MOOD Happy | MOOD Happy | MOOD Happy | MOOD Just OK | MOOD Depressed | MOOD Just OK | MOOD Happy |
| SLEEP ----- | SLEEP ----- | SLEEP ----- | SLEEP Medium quality 5 hours | SLEEP Poor quality 3 hours | SLEEP Poor quality 4 hours | SLEEP ----- |
| PAIN Moderate | PAIN ----- | PAIN ----- | PAIN ----- | PAIN Severe | PAIN Moderate | PAIN ----- |
| NOTES ----- | NOTES ----- | NOTES ----- | NOTES ----- | NOTES Couldn't even get dressed or leave the house Sharp stabbing pains in the back of my neck | NOTES Pain prevented sleep for 3 hours | NOTES ----- |
| ADD ENTRY | ADD ENTRY | ADD ENTRY | ADD ENTRY | | | ADD ENTRY |

CONFIGURE HEALTH JOURNAL



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Cancer library

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RECOMMENDATIONS

These are recommended based on your health information.

- ◆ [Relapse checklist](#)
- ◆ [Staying Cancer free](#)
- ◆ [Coping with Cancer](#)
- ◆ [Causes and Risk Factors](#)
- ◆ [Women's Cancers](#)

SEARCH

Search for information by cancer type, medical treatment and article type

Cancer type

Medical treatment

Article type

SEARCH ▸

CANCER TOPICS

- ◆ [Bladder Cancer](#)
- ◆ [Breast Cancer](#)
- ◆ [Colon and Rectal Cancer](#)
- ◆ [Endometrial Cancer](#)
- ◆ [Kidney \(Renal Cell\) Cancer](#)
- ◆ [Leukemia](#)
- ◆ [Lung Cancer](#)
- ◆ [Melanoma](#)
- ◆ [Non-Hodgkin Lymphoma](#)
- ◆ [Pancreatic Cancer](#)
- ◆ [Prostate Cancer](#)
- ◆ [Skin Cancer \(Nonmelanoma\)](#)
- ◆ [Thyroid Cancer](#)



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News

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RECENT NEWS RELEASES

- ◆ [New Study Implicates Healthcare Utilization Rates, More than Biology, in Colorectal Cancer Disparities](#)
(04/06/2010) - Higher rates of colorectal cancer incidence and mortality experienced by African-Americans may be driven largely by differences in health care utilization, and less by biology, according to a new study led by researchers from NCI. Lower rates of follow-up could lead to delayed diagnosis and treatment and higher mortality.
- ◆ [Pathways that Can Repair Brca1 Cancer Gene Mutation Clarified in Mice](#)
(04/01/2010) - In a new study in mice, scientists have compensated for mutations in the Brca1 gene that can lead to cancer by deleting a second gene, which then lessens the probability of cancer.
- ◆ [Adding Common Genetic Variants to Breast Cancer Risk Models Offers Only Small Benefit](#)
(03/17/2010) - Scientists report that breast cancer risk assessment models, which predict a woman's chance of developing breast cancer, do not perform better when they include common inherited genetic variants recently linked to the disease.
- ◆ [Panel Calls for Reducing Colorectal Cancer Deaths by Striking Down Barriers to Screening](#)
(02/04/2010) - Rates of screening for colorectal cancer are consistently lower than those for other types of cancer, particularly breast and cervical. Although the screening rates in the target population—adults over age 50—have increased from 20-30 percent in 1997 to nearly 55 percent in 2008—the rates are still too low. An NIH state-of-the-science panel was convened this week to identify ways to further increase the use and quality of colorectal cancer screening in the United States.

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TRIALS THAT MIGHT INTEREST YOU

- ◆ [An Observational Study of Treatment, Outcomes, and Prognosis in Patients With Follicular Non-Hodgkin's Lymphoma](#)
- ◆ [Aromatase Inhibitor Clinical Trial](#)
- ◆ [Efficacy of G-CSF-Priming in Elderly AML Patients](#)
- ◆ [An Expanded Access Program For Lenalidomide Plus Dexamethasone In Previously Treated Subjects With Multiple Myeloma](#)

SEARCH NCI'S LIST OF CLINICAL TRIALS NOW ACCEPTING PARTICIPANTS

Search Tip: Skip any items that are unknown or not applicable.

Cancer Type/Condition

Select

Stage/Subtype

Location

☐ Near Zip Code

☐ At Hospital/Institution

☐ In City/State/Country

☐ At NIH

Trial/Treatment Type

Search by trial type, drug, or treatment/intervention

[SHOW OPTIONS](#)

Keywords/Phrases

Search by word or phrase (use quote marks with phrases)

Trial Status/Phase

Search by trial status, phase, or trials added in the last 30 days

[SHOW OPTIONS](#)

Trial ID/Sponsor

Search by protocol ID, sponsor, investigators, lead organization/cooperative group, or special category

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[NARROW OR WIDEN THIS GROUP](#)

There are 1,797 females over the age of 65 with Stage II Colon cancer

MEDICAL TREATMENTS

[SEE ALL](#)

What treatments are they getting for their cancer?



DIAGNOSED

[SEE ALL](#)

How long have they been diagnosed?



SYMPTOMS

[SEE ALL](#)

What symptoms do they have?



NON-MEDICAL TREATMENTS

[SEE ALL](#)

What non-medical things are they doing ?



SIDE EFFECTS

[SEE ALL](#)

What treatment side effects are they experiencing?



TREATMENT LOCATION

[SEE ALL](#)

Where are they being treated?



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Consent to share your data

[Home](#) > [Share](#) > Consent to share

Share your data with researchers

Share my de-identified data with researchers. No data will be shared that could identify you

[I AGREE](#)

[I DO NOT AGREE](#)

View our [Privacy Policy](#) to see how we protect your information

WHY SHARE MY INFORMATION?

The more information that researchers have, the more likely it is that they will be able to find better treatments, prevention methods or even a cure!

Contribute your knowledge to the search for the cure.



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Joining Provider and Patient Information



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Microsoft

SAIC



Diagnosis

| | | | | |
|----------------------------|--------------|----------------------|-------------------------------|-----------------------|
| breast cancer | colon cancer | colorectal cancer | hematopoietic/lymphoid can... | kidney/urinary cancer |
| lip and oral cavity cancer | lung cancer | oropharyngeal cancer | ovarian epithelial cancer | pancreatic cancer |
| prostate cancer | skin cancer | thyroid cancer | uterine corpus cancer | |

Gender

Female

Male

Race

Asian

Black_or_African...

White

Age

30 - 34

35 - 39

40 - 44

45 - 49

50 - 54

55 - 59

60 - 64

65 - 69

70 - 74

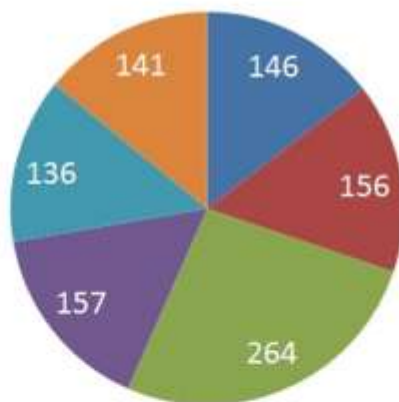
75 - 79

80 - 84

85 - 89

90 - 94

ECOG Performance Assessment

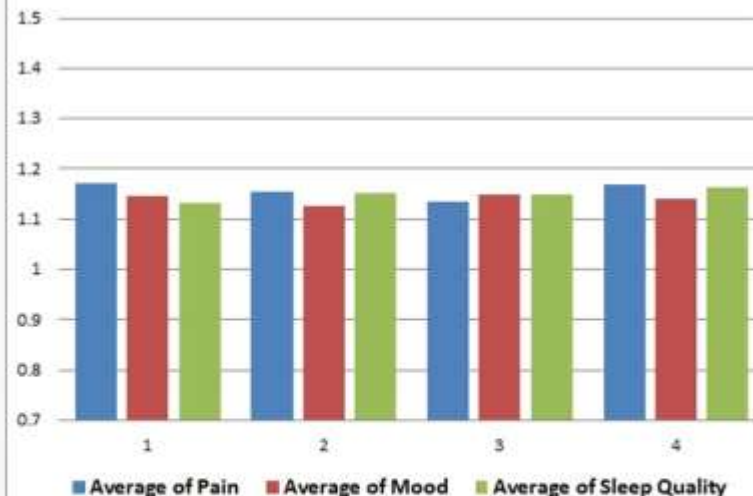


- 0 - Fully active, able to carry on all pre-disease performance without restriction.
- 1 - Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature.
- 2 - Ambulatory and capable of all selfcare but unable to carry out any work activities. Up and about more than 50% of waking hours.
- 3 - Capable of only limited selfcare, confined to bed or chair more than 50% of waking hours.
- 4 - Completely disabled. Cannot carry on any selfcare. Totally confined to bed or chair.
- 5 - Dead

Patient Outcomes

Patient Reported Concerns - Weeks 1 to 4 After Treatment

(higher score indicates greater concern)



Gender

Female

Male

Race

Asian

Black_or_African_A...

White

Prior Therapy

False

True

Age

20 - 24

35 - 39

40 - 44

45 - 49

50 - 54

55 - 59

60 - 64

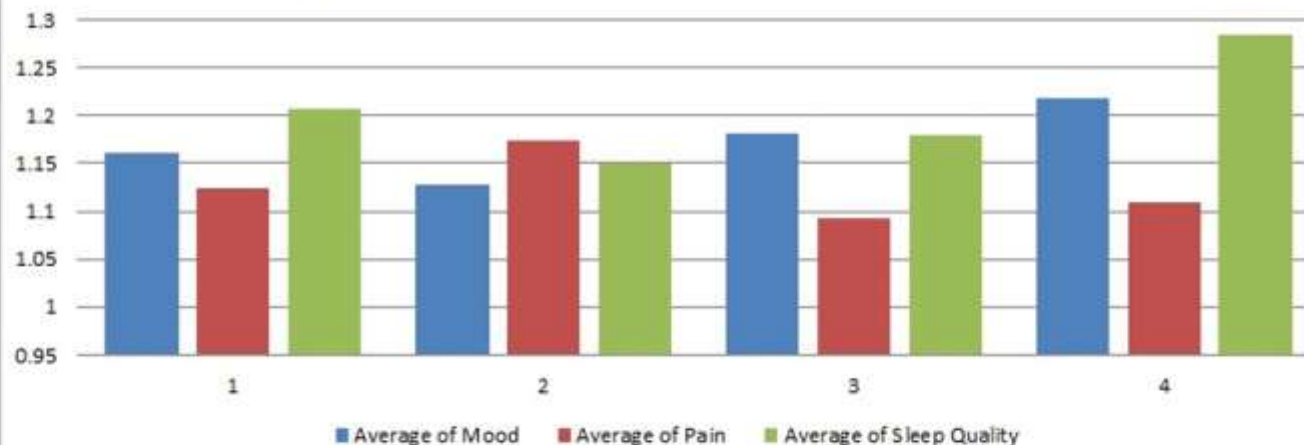
65 - 69

Patient Reported Outcomes Treatment Delay > 30 Days

Dx-to-Treatment Days > 30 .T

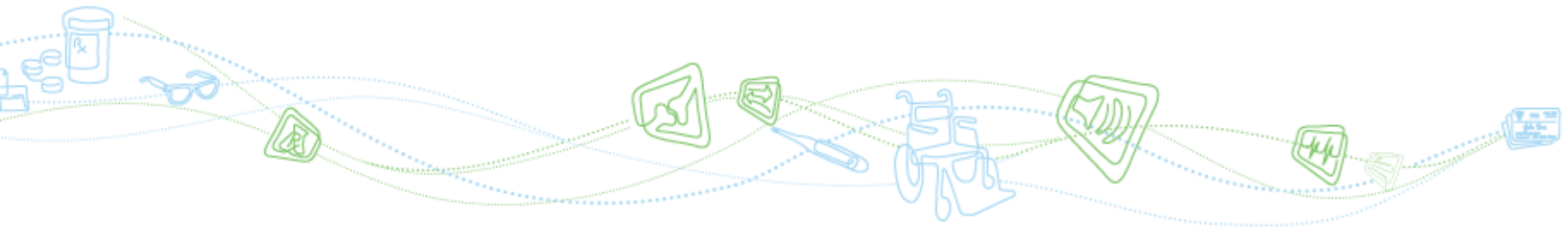
| Diagnosis | Patients |
|-------------------------------|-----------|
| breast cancer | 9 |
| colon cancer | 4 |
| colorectal cancer | 5 |
| hematopoietic/lymphoid cancer | 5 |
| kidney/urinary cancer | 2 |
| lip and oral cavity cancer | 4 |
| lung cancer | 12 |
| ovarian epithelial cancer | 2 |
| pancreatic cancer | 4 |
| prostate cancer | 12 |
| skin cancer | 4 |
| thyroid cancer | 3 |
| uterine corpus cancer | 3 |
| Grand Total | 69 |

Patient Reported Concerns - Weeks 1 to 4 After Treatment (higher score indicates greater concern)



Summary

- Opportunities exist right now to use data in new ways to **transform cancer research and clinical care**
 - Technology now offers possibilities not feasible ever before
 - We can work differently – using information technology and seamless flow of data – to accelerate research AND improve clinical care
- Participants from every sector **have a contribution to make** – consumers, providers, industry, government, academe – to conquer cancer



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